

CLAIMS

What is claimed is:

1. An image sensor comprising:
 - a plurality of pixels formed into a two-dimensional sensing array, each of said pixels adapted for converting incident light into an electrical signal; and
 - a plurality of color filters formed over said plurality of pixels, said color filters having an opacity that varies in accordance with the intensity of incident light.
2. The image sensor of Claim 1, further including means for detecting the intensity of said incident light and means for applying an electrical signal to said color filters to vary the opacity.
3. The image sensor of Claim 1 wherein said color filters are formed from a photosensitive material that increases in opacity as the intensity of said incident light increases.
4. The image sensor of claim 1, wherein said color filters are comprised of red, green, and blue filters.
5. A method, comprising:
 - forming a sensing array comprised of a two-dimensional array of pixels, said pixels adapted to convert incident light into an electrical signal;
 - depositing color filters over said array of pixels, said color filters formed from a material that has a variable opacity.
6. The method of Claim 5, wherein said material has an opacity that is dependent upon the intensity of incident light.
7. The method of Claim 5, wherein said material has opacity that can be controlled by an electrical signal.
8. The method of Claim 5 further including forming means for detecting the intensity of the incident light.